Milestone	Action	Target Completion	Status	Completion Dat
I. Reporting	g and Implementation			
(I).1.a Provi	de a report of implementation to the Commissioner and Deputy Commissioners.			
	Develop a schedule with reporting milestones within 60 days of memo.	8/23/2019	Reclamation provided a coordinated action plan, complete with milestones, tasks and target completion dates for each directive on August 23. All information can be found here https://www.usbr.gov/mp/hydro.html.	8/23/20
(I).1.b Provi	de an implementation status report to the Commissioner and Deputy Commissioners.			
		10/00/0010		10/10/00
	Provide an implementation status report of the action plan within 120 days of memo.	10/23/2019	This revised plan as of October 18, 2019 is the 120-day status report. This revised plan as of May, 2020 and presented to the next customer forum (CCC), scheduled on	10/18/201
	Provide a status report every 6 months.	4/20/2020	June 2, 2020.	5/18/202
	Provide a status report every 6 months. Provide a status report every 6 months.	10/16/2020		3/16/202
	Provide a status report every 6 months.	4/15/2021		
-	Provide a status report every 6 months.	10/12/2021		
	Provide a status report every 6 months.	4/8/2022		
II Imnleme	entation - Cost Stability - Predictability and Transparency			
iii iiiipiciiic	creation cost stability i redictability and transparency			
III 1 a Morl	 k with customers, WAPA and project proponent for Sites/North-of-Delta Off-Stream Storage (NODO	E) Project on hydronow	or numero analysis	
(11).1.a VVOII	with customers, wark and project proponent for sites/North-of-Delta Off-stream storage (NODO	5) Project on Hydropow	ei puipose alialysis.	
	Discuss analysis of benefits, costs, and financial impacts associated with the draft feasibility			
	Discuss analysis of benefits, costs, and financial impacts associated with the draft feasibility report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power		Discussion Initiated in January 2019 customer meeting and ongoing per customer request to	
	Discuss analysis of benefits, costs, and financial impacts associated with the draft feasibility report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power customers at Power Customer Coordination Committee (CCC) meeting.	1/15/2019	Discussion Initiated in January 2019 customer meeting and ongoing per customer request to receive updates.	3/13/201
	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power	1/15/2019	,	3/13/20
	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power	1/15/2019	receive updates. USBR currently has appendixes within the SITES/NODOS FR describing the power model assumptions, methods, and models used for the Sites and is still waiting on the Sensitivity	3/13/20:
	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power customers at Power Customer Coordination Committee (CCC) meeting.	1/15/2019	receive updates. USBR currently has appendixes within the SITES/NODOS FR describing the power model assumptions, methods, and models used for the Sites and is still waiting on the Sensitivity Analysis, Findings, and Recommendations Chapters. AECOM intends to finish those by May 21st.	
	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power customers at Power Customer Coordination Committee (CCC) meeting. Draft Lt-Gen hydropower purpose analysis for Sites/NODOS project discussion with power		receive updates. USBR currently has appendixes within the SITES/NODOS FR describing the power model assumptions, methods, and models used for the Sites and is still waiting on the Sensitivity Analysis, Findings, and Recommendations Chapters. AECOM intends to finish those by May 21st. LTGen, SWP_Power, and other models are being used to update this study and provide analysis	FR results expected
	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power customers at Power Customer Coordination Committee (CCC) meeting.		receive updates. USBR currently has appendixes within the SITES/NODOS FR describing the power model assumptions, methods, and models used for the Sites and is still waiting on the Sensitivity Analysis, Findings, and Recommendations Chapters. AECOM intends to finish those by May 21st. LTGen, SWP_Power, and other models are being used to update this study and provide analysis for Sites/NODOS power impacts. And all the costs and benefits are further refined.	FR results expected
	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power customers at Power Customer Coordination Committee (CCC) meeting. Draft Lt-Gen hydropower purpose analysis for Sites/NODOS project discussion with power		receive updates. USBR currently has appendixes within the SITES/NODOS FR describing the power model assumptions, methods, and models used for the Sites and is still waiting on the Sensitivity Analysis, Findings, and Recommendations Chapters. AECOM intends to finish those by May 21st. LTGen, SWP_Power, and other models are being used to update this study and provide analysis for Sites/NODOS power impacts. And all the costs and benefits are further refined. USBR currently has apendixes within the SITES/NODOS FR describing the power model	FR results expected
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	report's inclusion of a hydropower purpose to the proposed Sites/NODOS project with power customers at Power Customer Coordination Committee (CCC) meeting. Draft Lt-Gen hydropower purpose analysis for Sites/NODOS project discussion with power preference customers. Submit administrative Final Feasibility Report to Commissioner's Office. Submit administrative Final Environmental Impact Statement to Commissioner's Office. Participate in regular calls and discussions with Joint Power Authority to develop operations plan	2/11/2019 10/31/2020 10/31/2020	receive updates. USBR currently has appendixes within the SITES/NODOS FR describing the power model assumptions, methods, and models used for the Sites and is still waiting on the Sensitivity Analysis, Findings, and Recommendations Chapters. AECOM intends to finish those by May 21st. LTGen, SWP_Power, and other models are being used to update this study and provide analysis for Sites/NODOS power impacts. And all the costs and benefits are further refined. USBR currently has apendixes within the SITES/NODOS FR describing the power model assumptions, methods, and models used for the Sites and is still waiting on the Sensitivity Analysis, Findings, and Recommendations Chapters. AECOM intends to finish those by May 21st. The FR will next go to a Policy Compliance Review scheduled June 8th, the results will be briefed to the Commissioner July 8th. This FR updated CALSIM to 2020 (From 2011) operating conditions. Briefing of new FR to the Commissioner expected on July 8, 2020. Next public comment period would be after a revised and recirculated EIR, which is expected to be released for public review in Summer 2021. The previous FR used a CALSIM model from 2011, this FR updated CALSIM to 2020 operating conditions. And all the costs and benefits are further refined. A revised and recirculated EIR is expected to be released for public review in Summer 2021.	3/13/201 FR results expected to July 202

Τ	T		Draft It Con analysis is still in work MD 700 surrently reviewing models and analysis from the	T
			Draft Lt-Gen analysis is still in work. MP-700 currently reviewing models and analysis from the Sites/NODOS 2020 Feasbility Study. USBR currently has apendixes describing the power model	
1				
			assumptions, methods, and models used for the Sites and is still waiting on the Sensitivity	
			Analysis, Findings, and Recommendations Chapters. AECOM intendes to finish those by May	
	Draft Lt-Gen benefits analysis for Sites/NODOS project for discussion with power preference		21st. USBR Provided updates to NODOS/Sites to Power customers on 2/11/2020 CCC meeting	
	customers.		and will continue to update power customers as more chapters/information becomes official.	2/11/20
	Submit administrative Final Feasibility Report to Commissioner's Office.	10/31/2020	Expected in July 2020	
	Submit administrative Final Environmental Impact Statement to Commissioner's Office.	10/31/2020		
	Participate in regular calls and discussions with Joint Power Authority to develop operations plan			
	proposal.	Ongoing	Participating in Reservoir Committee and Executive Committee meetings.	Ongoir
	Work with WAPA, customers and project proponents to finalize operations plan after		Schedule will be created after determination of Feasibility; Principles of Operation and basic	
	determination of feasibility.	TBD	guidelines include no harm to CVP Operations	
II).1.c Work	with non-federal cost share partners, preference power customers, WAPA and stakeholders for Shas	sta Raise hydropower	purpose analysis.	
	Provide Shasta Dam Raise updates at WAPA CCC meeting to ensure benefits, costs, and financial			
	impacts associated with the draft Feasibility Report's inclusion of a hydropower purpose to the			
	proposed project are analyzed, evaluated, and considered as the project moved forward.	8/22/2019	Complete.	8/22/201
			Lt-Gen and PLEXOS models continue to be analyzed by Reclamation. Lt-Gen model may be	
			overpredicting generation and therefore planning division is reviewing model and looking for	
			solutions. They are currently migrating to a greater focus on Lt-Gen for power modeling, instead	
			of PLEXOS. Currently finishing CalSim modeling and then will pivot focus on Lt-Gen. As of May	
	Lt-Gen corrections for power benefits due/to-be-completed.	11/1/2019	2020, this is still be analyzed.	
	Contract to be awarded to provide additional PLEXOS runs to improve hydropower benefits			
	analysis.	11/1/2020	Contract awarded. Complete.	8/19/2019
			Benefits analysis will be provided at the power customer meeting following completion.	0, 20, 202
	Complete revised benefits analysis.		Currently reviewing the modelling results of the revised benefits analysis.	
		· · ·		
l).1.d Work	with preference power customers and WAPA as appropriate on other feasibility studies.			
	Discuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings to ensure		As reported at the power update provided at the October 10, 2019 CCC meeting, a Reclamation	
	the benefits, costs, and financial impacts associated with the inclusion of a hydropower purpose		team has actively been analyzing the models LT Gen and Plexos to assess the level of accuracy	
	for proposed projects are analyzed, evaluated, and considered as projects move forward.	Ongoing	appropriate for feasibility studies. As of April, 2020, this is still ongoing.	Ongoin
	asibility is appropriately determined and Congressional authorization provided for a project - work w	ith navyar sustamors	WARA project proposests water contractors and stakeholders to develop detailed energions	nlan
11).1.0.1 11 10	asibility is appropriately determined and Congressional authorization provided for a project - work w	ntii power customers,	wara, project proponents, water contractors, and stakeholders to develop detailed operations	pian.
	Modify appropriate internal directives to include outreach for stakeholders and power marketing		Following release of Appraisal Study D&S (CMP 09-01) and Planning Policy (CMP P09),	
	agencies. Determine if additional outreach is required before feasibility is determined and add to		Reclamation will begin updates to CMP 09-02 in 2019. CMP 09-02 was revised on December 12,	
	appropriate directives and standards (if not already included).	7/31/2020	2019. As D&S are updated, BOR will provide updates to CVP Power customers as relevant.	Complete 12/12/201
	Reclamation's Planning Office (MP-700) will begin coordination and development of detailed	., 31, 2320	, , production of the second o	,,,,
	operations plan if and when feasibility is appropriately determined and Congressional			
	authorization is provided for a project.	Ongoing	Work will occur if/when feasibility is determined for any proposed project.	Ongoin
	authorization is provided for a project.	Oligonia	Work will occur if, when reasibility is determined for any proposed project.	Oligoni
II). 1.e Devel	lop a Standard Operating Procedure (SOP) to document methodology and procedures for constructio	on cost recovery.		
			Reclamation met with the CVP FAC and determined the SOP will document what Reclamation will	
	Meet with CVP Financial Affairs Committee (FAC) to determine items for SOP.		do to ensure repayment is accomplished by 2030.	7/19/201
	Develop draft SOP within 60 days of meeting with FAC.		An SOP has been drafted and is under internal review.	
	Share draft SOP at next FAC meeting.	9/20/2019		
	Share draft SOP at WAPA CCC Customer Meeting.	10/10/2019		
II) 1 f - Develo	op aid-to-irrigation document for Water Infrastructure Improvement for the Nation (WIIN) Act projec	cts.		

	Develop document describing handling of aid-to-irrigation for WIIN Act construction prepayment and new construction projects funded under WIIN authorities within 60 days of memo.	8/28/2019	Reclamation provided a presentation and consulted with water and power stakeholders on TRMR #122, which was then finalized August 2019. The document can be found here: https://www.usbr.gov/recman/temporary_releases/pectrmr-122.pdf	8/2
(II).1.g Share th	he SOP documenting the methodology for treatment of non-permanent revenue.			
	Share draft SOP with customers at customer CCC meeting.	10/10/2019	Two draft SOP's have been prepared. They are being reviewed internally and shared with Reclamation FAC customers prior to sharing with WAPA for their comments. Still in Internal review process.	
[Discuss two finalized SOPs with power customers at CCC meeting.	10/10/2019	To be shared at a CCC meeting following internal review of the SOP.	
j	Finalize SOP, which identifies (a) what this revenue represents (definition of this water), (b) the justification for the accounting process, and (c) description of the rate-setting schedules.	11/1/2019		
F	Review the guidelines annually.	11/1/2020		
(II).1.h Work w	vith WAPA to maintain 10-year forecast of capital improvements. Review with customers at Techni	cal Committee Meetir	ngs.	
	Complete 10-year forecast of capital improvements for CVP power infrastructure.	8/6/2019	Complete and ongoing revisions tied to each MMPPC meeting.	3
	Reclamation provided a presentation and an opportunity to review the 10-year forecast with CVP		This was provided at the MMPPC and Technical Committee Meeting and finalized August 2019	
	customers at Technical Committee Meetings.	8/6/2019	Complete and ongoing.	8
			For latest updates, please contact Steve Melavic at smelavic@usbr.gov. The forecast is being revised and shared with power customers more frequently than annually (MMPPC, Technical Committee and CCC meetings). This has been included as part of the agenda for each meeting	
	Update 10-year forecast annually.	8/1/2020	and is updated regularly. Updates are shared at each meeting as part of the agenda.	(
		5, -,	and the second s	
(II).1.i Work wi	ith WAPA, power customers, and stakeholders to develop a variance percentage threshold betwee	n budgeted and actua	l expenditures.	
F	Reclamation will seek customer and stakeholder input on appropriate variance percentage			
t	threshold.	10/31/2019	Coordinate variance percentage determination with WAPA, power customers and stakeholders.	In
	Determine appropriate variance percentage threshold between budgeted and actual expenditures for transparency of multipurpose O&M and construction costs.	1/13/2020		
]	Document and share variance percentage commitment with power customers.	6/1/2020	This information will be shared at CCC meeting.	
(II).1.j Impleme	ent benchmarking of CVP hydropower data and share annually.			
ļ	Prepare preliminary report outlining results of cost and operational data for CVP generators.	10/31/2019	Reclamation continues to develop this report and will share when completed. Suggested metrics for the data shared with customers via email. CVO Office shared Benchmarking data from 2016-2018 with Power customers in February 2020 at the TC Meeting	
		· ·	Results were shared at customer TC meeting in February 2020 following completion. This is an	
	Share results with Reclamation management and power customers.	10/31/2019	annual requirement and will continue each year after benchmarking results are finalized.	2
	Prepare and share report with Reclamation management and power customers annually.		Results will be shared at TC meetings annually.	
III Impelantan	station Loct Draduction Opportunities			
III. Implemen	ntation - Lost Production Opportunities			
(III).1.a Use be	st available science with plant bypass operations.			
	Consulinate with the Associate Birmand Consults Birmand C		Reclamation will continue to coordinate with the groups to use data for decision-making and to incorporate real-time monitoring into decisions. Updates from these meetings are provided during customer meetings. In late October 2019, Reclamation and WAPA's engagement with the	
	Coordinate with the American River and Sacramento River groups when evaluating power plant bypass operations for species mitigation.	Ongoing	American River group resulted in mitigating a proposed bypass of Folsom Powerplant by applying available science.	
	Coordinate with American River and Sacramento River groups to ensure use of best available		Reclamation will continue to coordinate with the groups to use data for decision-making and to incorporate real-time monitoring into decisions. Updates from these meetings are provided during customer meetings. In late October 2019, Reclamation and WAPA's engagement with the American River group resulted in mitigating a proposed bypass of Folsom Powerplant by applying	
	science with plant bypass operations.	<u>.</u> .	available science.	

(,	ordinate with WAPA fisheries biologist in adaptive management committees.			
	Invite WAPA biologist to tour the Central Valley Office control center and provide an overview of	4/26/2040	Complete	4/20
	CVO operations.	4/26/2019	Complete.	4/26
	Invite WAPA fisheries biologist to attend adaptive management committees (American River			
	Group and Sacramento River Temperature Task Group) to help ensure requests for power bypass			
	operations are supported by best available science.	6/20/2019	Any information from those meetings is updated through WAPA's channels.	6/20
		0,10,101	, , , , , , , , , , , , , , , , , , , ,	5, = 1
(III).1.c Rev	view Shasta Water Control Manual (WCM) potential.			
	Reclamation will evaluate the forecast-informed reservoir operations when the U.S. Army Corps of			When a
	Engineers opens this process for comment.	When situation occurs	This action will occur when the U.S. Army Corps of Engineers initiates revisions to the WCM.	initiated by the
(III) 1 d - Pro	ovide updates on flood control operations.			
(1117.11.011110			Flood operations updates are now included in the weekly status report to power	
	Include flood operations updates in the weekly status reports to power customers.	8/30/2019	customers when in flood operations.	8/30
	instage need operations apactes in the weekly status reports to power customers.	0,00,202	Reclamation provides water operations updates at each power customer CCC meeting. This	3,50
	Discuss as a part of Reclamation's "Power Update" at all Power Customer CCC meetings.	Ongoing	includes flood control operations when relevant.	О
	Place as a part of Nesia mation of Fower opaute at an Fower castomer coefficients	011801118	moduces nood control operations when relevants	
(III).1.e CVI	P Hydropower Outage Scheduling - Framework at Maintenance and Major Project Planning Committe	ee (MMPPC)		
	Inform customers about the concepts adopted in the CVP Hydropower Outage Scheduling			
	framework document by posting to Reclamation's website.	6/25/2019	Content of the Outage Scheduling Framework was presented at the summer 2019 CCC meeting.	6/2
	Include an agenda item on the next MMPPC and the MP SNR O&M meeting to discuss FY20			
	outage schedule and receive input from power customers.	9/5/2019	This action will occur when the next MMPPC is scheduled.	4/1
(III) 1 f - Coo	ordinate O&M, outages at MMPPC			
(,	Include an ongoing agenda item for the MMPPC meeting to discuss and coordinate items related		Reclamation added this item to its agenda and will continue to discuss and coordinate at MMPPC	
	to O&M and planned and ongoing outages.	Ongoing	meetings.	О
		- 0- 0	Reclamation developed a guide and cost calculator. These are regularly used and discussed at	
	Develop a scheduling guide that Reclamation Area Offices will utilize to help schedule outages.	4/1/2020	MMPPC meetings.	4/2
(III).2.a Rev	view and revise Hydropower Program Policy (FAC P04).			
(,	Revise existing Hydropower Program Policy to develop appropriate language that Power			
	Resources Office will maintain, monitor, and renew procurement options to streamline regional			
	hydropower program services in a way that is consistent with existing law and regulations.	7/3/2019	Complete.	7/:
	Brief DC leadership on Policy overview briefing.		Complete.	9/2
	Publish revised Hydropower Program Policy.	12/1/2019	FAC P04 was revised and published on 10/23/2019	10/2
(III).2.b Tra	ck and evaluate the performance of implemented procurement streamlining solutions.			
			Reclamation will share the benchmarks on the MP Power Website and in customer meetings.	
			Reclamation continues to explore procurement streamlining solutions. A benchmark strategy	
			was developed in November 2019. At this point the Tennessee Valley Authority interagency	
			Agreement has not been utilized on CVP projects. We have coordinated with them on upcoming	
			work and plan to have them onsite to look at the proposed projects. We are also working on	
	Develop specific benchmarks to measure cost savings by using new procurement tools.	11/1/2019	additional contracts to help in the streamlining efforts.	C
IV Implem	nentation - Value of Resource			
iv. iiiipieli	inclitation - value of Nesource			
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			Reclamation provided the data for the gap analysis to BANC. Reclamation continues work on planning SCADA modifications for entering into the EIM. Reclamation received approval from customers' Governance Board for funding the EIM in future year. October 2019 status: Reclamation (CVO) planning to develop new dispatch algorithm by Sep 2020. WAPA and Reclamation have held meetings up through April 2020 in regards to evaluating benefits and	
Continue to meet with	customers to evaluate benefit and costs for implementation.	4/2019 - Ongoing	costs for implementation. Reclamation has developed an O&M cost rate.	4/2020 - Ongo
Continue coordination	meetings with Reclamation, WAPA and BANC.	4/2019 - Ongoing	Frequent meetings continue to occur between Reclamation, WAPA, and BANC.	4/2020 - Ongo
Continue to provide su	upport for following WAPA determination on implementing EIM.	Ongoing	Public comment period on EIM ended on 8/16/19. On Aug 27, 2019, WAPA made a determination to move forward with their Sierra Nevada Region's participation in EIM. Reclamation is continuing to support WAPA during implementation process.	8/27/20
(IV).1.b Explore water order schedul	es to allow for better forecasting of O'Neil Pump/Generation Plant operatio	ns and power demands		
•	ian Joaquin River Water Authority, and San Joaquin River Exchange option on improving O'Neil Operations.	6/12/2019	Water customers (SLDMWA, San Joaquin River Water Authority, and San Joaquin River Exchange Contractors) have agreed to improve forecasting of operations at O'Neill Complete.	6/12/2
Share power economic	cs data with water customers.	6/12/2019	Economics shared - Complete.	6/12/2
Test the new process t	to transmit O'Neill and Tracy PUP schedules to the SLDMWA.	10/1/2019	A new process was developed and testing began in October 2019. The process includes transmitting daily pumping generation schedules between CVO and SLDMWA. Denver IT approved direct transfer of data to SLDMWA in December 2019.	12/31/2
(IV) 1 a. Adopt principles cuttined in	framework on improved encuesional flevibility.			
(IV).1.c Adopt principles outlined in	framework on improved operational flexibility.			
Discuss as a part of Re	clamation's "Power Update" at all Power Customer CCC meetings.	Ongoing	Power Update was provided at the CCC on October 10, 2019.	Ong
(IV).1.d Advance discussions about (optimizing operational flexibility scheduling.			
part of standard opera		, 5	Experiments 1, which proposed lower minimum takes in daylight low value hours, and 2, which proposed lower minimum takes in surrounding hours by raising minimum takes in the morning on-peak hours, were accepted by Reclamation and WAPA to become a part of standard operations in August 2019. Experiment 3, under which customers pre-disclose portions of their intended BR schedule, appears to be a useful tool, but needs some automation to reduce the impact on schedulers for customer data collection. A new experiment (4) was proposed by a WAPA contractor at last customer meeting which would provide a volume target to customers with the goal of providing even more customer flexibility. The proposal is a recognition that there is a machine minimum at which some machines will operate at; an opportunity to watch lake levels to minimize between hours of midnight and HE16 and move production of BR energy to the high value hours Reclamation is considering this experiment and alternatives. Exp 4 could realize higher value from reshape, but could also create difficult generation transitions and create sub-optimal max peaking periods. All Experiments showed reduction on Max Peaking	Reference Reg hydropower wel for graphic up presentation by Way, 2
Discuss as a part of Re	clamation's "Power Update" at all Power Customer CCC meetings.	10/10/19 - Ongoing	Experiments are evaluated monthly and discussed regularly at Power Customer CCC meetings.	Ong
(IV).2 Track schedule for California z	ero carbon and carbon neutral rulemaking process.			
Reclamation's Power F carbon neutral energy	Resources Office will track the schedule for the California zero carbon and rulemaking process.	9/1/2021	Reclamation is registered with California State list-serves responsible for SB-100 implementation and will receive updates as the rulemaking process continues. Reclamation's Power Resources Office will continue to work with the HPOC to keep awareness of this action. Reclamation supports Power Customer's desire to have large hydro count for renewable energy credits and understands the significance of this desire.	Ong
V. Implementation - Improved	Customer Service			
	Custoffier Service			
(V).1.a Adopt framework for large-so	cale delta conveyance facility.			

Engage power in the planning	process and provide regular updates to power customers.	The State of California continues to proceed with planning efforts for the Delta Conveyance Project. The state released the Notice of Preparation (NOP) for the new project. Reclamation submitted a comment letter that requested a clear delineation between the existing biological monitoring requirements and the monitoring requirements resulting from changes from system wide programs due to the addition of the Delta Conveyance Project; an initial plan that describes how DWR would operate the Delta Conveyance Project and comply with Federal Endangered Species Act requirements related to operations; and a detailed analysis of the effects of the Delta Conveyance Project on the CVP.	
(V).1.b Develop Mid-Pacific webpage on Re	clamation's website to host initiative updates.		
	ns the (a) coordinated action plan, (b) biannual updates, (c) erence materials for the CVP Power Initiative.	The webpage and all associated information can be found here: https://www.usbr.gov/mp/hydro.html - Complete.	6/24/2019